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72689 7590 02/11/2009

SHUMAKER & SIEFFERT, P.A.
1625 RADIO DRIVE, SUITE 300
WOODBURY, MN 55125

EXAMINER

BADAWI, SHERIEF

ART UNIT

PAPER NUMBER

2167

DATE MAILED: 02/11/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/756,960

01/13/2004

Reid E. Wilson

1014-079US01/JNP-0322

4807

TITLE OF INVENTION: RESTORATION OF ARCHIVED CONFIGURATIONS FOR A NETWORK DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	05/11/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

72689 7590 02/11/2009

SHUMAKER & SIEFFERT, P.A
1625 RADIO DRIVE, SUITE 300
WOODBURY, MN 55125

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/756,960 01/13/2004 Reid E. Wilson 1014-079US01/JNP-0322 4807

TITLE OF INVENTION: RESTORATION OF ARCHIVED CONFIGURATIONS FOR A NETWORK DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional NO \$1510 \$0 \$0 \$1510 05/11/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
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BADAWI, SHERIEF 2167 707-008000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/756,960	01/13/2004	Reid E. Wilson	1014-079US01/JNP-0322	4807
72689	7590	02/11/2009	EXAMINER	
SHUMAKER & SIEFFERT, P.A 1625 RADIO DRIVE , SUITE 300 WOODBURY, MN 55125			BADAWI, SHERIEF	
			ART UNIT	PAPER NUMBER
			2167	
DATE MAILED: 02/11/2009				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1033 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1033 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/756,960	WILSON ET AL.	
	Examiner	Art Unit	
	SHERIEF BADAWI	2167	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 1/14/2009.
2. ☒ The allowed claim(s) is/are 1, 7, 12-17, 23, 28-32,, 40 and 43.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>1/7/2009</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

/S. B./
Examiner, Art Unit 2167

DETAILED ACTION

1. This office action is in response to the amendment filed on January 14, 2009, in which claims 1, 7, 12-17, 23, 28-32, 40 and 43 are presented for further examination.

Response to Arguments

2. Applicant's amendment and arguments filed on January 14, 2009, with respect to claims 1, 7, 12-17, 23, 28-32, 40 and 43 have been fully considered and are persuasive. The rejection of last office action has been withdrawn.

Terminal Disclaimer

3. The terminal disclaimer filed on 1/14/2009 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent Nos. 7,233,975 and 7,483,965 has been reviewed and is accepted. The terminal disclaimer has been recorded.

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Kent J. Sieffert (Reg. No. 41,312) on January 16, 2009.

The application has been amended as follows:

This listing of claims will replace all prior versions and listings of claims in the application:

Claim 1 (Currently Amended) A method comprising: establishing, with a network device, a communication session with a client; receiving, with the network device, a lock command from the client via the communication session; locking candidate configuration data in response to the lock command from the client to grant an archive system exclusive access to the candidate configuration data of the network device and lock the candidate configuration data so that no other clients can edit the candidate configuration data, wherein the candidate configuration data represents an editable working copy of current operational configuration data of the network device; after locking the candidate configuration data, receiving a load command from the client and, in response to the load command, loading, from the archive system, archived configuration data that represents previous operational configuration data of the network device to replace the locked candidate configuration data; in response to a first commit command from the client, temporarily committing the candidate configuration data to temporarily restore the archived configuration data as the operational configuration data of the network device; upon temporarily committing the candidate configuration data, enabling a timer within the network device; in response to receiving a second commit command from the client prior to the timer exceeding a pre-set time limit, permanently committing the candidate configuration data to restore the archived configuration data as the operational configuration data of the network device; upon expiration of the timer without receiving the second commit command with the network device, executing a first rollback to undo any changes to the operational data from the archived configuration data as loaded into the candidate configuration data; and upon failure of the communication session prior to receiving the second commit

Art Unit: 2167

command, executing a second rollback to undo any changes made to the candidate configuration data by the archived configuration data to ensure the candidate configuration is synchronous with the operational configuration of the network device.

Claims 2-6 (Cancelled).

Claim 7 (Currently Amended) The method of claim 1, wherein the load command comprises an override attribute; and wherein loading the archived configuration data in response to receiving the load ,command includes discarding the entire candidate configuration and replacing the discarded ,candidate configuration data with the archived configuration data in response to the override attribute of the load command.

Claims 8-11 (Cancelled).

Claim 12 (Currently Amended) The method of claim 1, further comprising alter successfully permanently committing the candidate configuration data in response to receiving the second commit command prior to the timer exceeding the pre-set limit, unlocking the candidate configuration data.

Claim 13 (Currently Amended) The method of claim 12, wherein unlocking the candidate configuration data occurs in response to receiving an unlock command after receiving the second commit command.

Art Unit: 2167

Claim 14 (Original) The method of claim 13, wherein locking candidate configuration data permits only a single client to edit the candidate configuration data and unlocking the candidate configuration data allows one or more clients to simultaneously edit the candidate configuration data.

Claim 15 (Original) The method of claim 1, wherein committing the candidate configuration comprises: generating a configuration patch that lists any differences between the candidate configuration data and the operational configuration data; and applying the configuration patch to the operational configuration data to update the operational configuration data in accordance with the differences.

Claim 16 (Original) The method of claim 15, wherein generating a configuration patch comprises: creating a temporary copy of the candidate configuration data; merging the operational configuration data into the temporary copy to generate a list of 'updated configuration objects; and generating the configuration patch to list the updated configuration objects.

Claim 17 (Currently Amended) A device comprising: memory to store current operational configuration data and candidate configuration data, wherein the candidate configuration data represents an editable working copy of the current operational configuration data; a timer; a control unit; a control unit configured to establish a communication session with a client and present a user interface to the client for modifying the operational configuration data via the communication session, the user interface configured to support a first commit command that requires explicit confirmation by a second commit command from the client within a time; and wherein, upon

Art Unit: 2167

receiving a lock command from the client, the control unit is configured to lock the candidate configuration data and grant an archive system exclusive access to the candidate configuration data, wherein the candidate configuration data represents an editable working copy of current operational configuration data: wherein, upon receiving a load command from the client, the control unit is configured to load from the archive system archived configuration data that represents previous operational configuration data to replace the locked candidate configuration data; wherein, in response to the first commit command from the client, the control unit is configured to temporarily commit the candidate configuration data to temporarily restore the archived configuration data as the operational configuration data and, upon temporarily committing the candidate configuration data, enables the timer; wherein, in response to receiving the second commit command from the client prior to the timer exceeding a pre-set time limit, the control unit is configured to permanently commit the candidate configuration data to restore the archived configuration data as the operational configuration data; wherein, upon expiration of the timer without receiving the second commit command from the client, the control unit is configured to execute a first rollback to undo any changes to the operational data from the archived configuration data as loaded into the candidate configuration data; and wherein, upon failure of the communication session prior to receiving the second commit command, is configured to execute a second rollback to undo any changes made to the candidate configuration data by the archived configuration data to ensure the candidate configuration is synchronous with the operational configuration of the network device.

Claims 18-22 (Cancelled).

Art Unit: 2167

Claim 23 (Currently Amended) The device of claim 17, wherein the load command comprises an override attribute; and wherein the control unit discards the entire candidate configuration and replace the discarded candidate configuration data with the archived configuration data when the override attribute is enabled. ,

Claims 24-27 (Cancelled).

Claim 28 (Currently Amended) The device of claim 17, further comprising the control unit ,configured to unlock the candidate configuration data after successfully permanently committing the candidate configuration data in response to receiving the second commit command prior to the timer exceeding the pre-set limit,. Claim 29 (Currently Amended) The device of claim 28, wherein the control unit unlocks the candidate configuration data occurs in response to receiving an unlock command alter receiving the second commit command.

Claim 29 (Currently Amended) The device of claim 28, wherein the control unit unlocks the candidate configuration data occurs in response to receiving an unlock command after receiving the second commit command.

Claim 30 (Original) The device of claim 28, wherein locking candidate configuration data permits only a single client to edit the candidate configuration data and unlocking the candidate configuration data allows one or more clients to simultaneously edit the candidate configuration data.

Art Unit: 2167

Claim 31 (Original) The device of claim 17, wherein committing the candidate configuration comprises the control unit to generate a configuration patch that lists any differences between the candidate configuration data and the operational configuration data, and apply the configuration patch to the operational configuration data to update the operational configuration data in accordance with the differences.

Claim 32 (Original) The device of claim 31, wherein generating a configuration patch comprises the control unit to create a temporary copy of the candidate configuration data, merge the operational configuration data into the temporary copy to generate a list of updated ,configuration objects, and generate the configuration patch to list the updated configuration objects.

Claims 33-39 (Cancelled).

Claim 40 (Currently Amended) An archive system comprising: a memory to store archived configuration data that represents previous operational configuration data of a network device; and a computing device configured to establish a communication session from the archive system to a network device to be configured, wherein the computing device of the archive system is configured to issue a lock command from the archive system to the network device via the communication session to request exclusive access to the candidate configuration data of the network device and lock the candidate configuration so that no other clients can edit the candidate configuration data, wherein the candidate configuration data represents an editable working copy of current operational configuration data of the network device; wherein the computing device is configured to issue a load command to the network device to load the archived configuration data that represents previous

Art Unit: 2167

operational configuration data of the network device to replace the locked candidate configuration data; "and wherein the computing device is configured to issue a first commit command to the network device to commit the candidate configuration data to temporarily restore the archived configuration data as the operational configuration data of the network device for only a pre-set time limit; wherein the computing device is configured to, after issuing the first commit command and before expiration of the pre-set time limit, integrity testing the network device with the client to determine whether the network device is rendered inoperable by the restored archived configuration; and wherein the computing device is configured to, when the network device is operable, issue a second commit command within the pre-set time limit to permanently commit the candidate configuration data as the operational configuration data of the network device.

Claims 41-42 (Cancelled).

Claim 43 (Currently Amended) The archive system of claim 40, wherein the computing device of the archive system, is configured to perform integrity tests on the network device after issuing the first commit command to assess a state of one or more devices, and selectively issue the second commit command commit command based on the assessed state of the one or more devices.

Claims 44-55 (Cancelled).

Allowable Subject Matter

5. Claims 1, 7, 12-17, 23, 28-32, 40 and 43 are allowable in light of the Applicant's arguments and in light of the prior art made of record.

Reasons for Indicating Allowable Subject Matter

6. The following is an examiner's statement of reasons for allowance: Upon searching a variety of databases, the examiner respectfully submits that “in response to a first commit command from the client, temporarily committing the candidate configuration data to temporarily restore the archived configuration data as the operational configuration data of the network device; upon temporarily committing the candidate configuration data, enabling a timer within the network device; in response to receiving a second commit command from the client prior to the timer exceeding a pre-set time limit, permanently committing the candidate configuration data to restore the archived configuration data as the operational configuration data of the network device; upon expiration of the timer without receiving the second commit command with the network device, executing a first rollback to undo any changes to the operational data from the archived configuration data as loaded into the candidate configuration data; and upon failure of the communication session prior to receiving the second commit command, executing a second rollback to undo any changes made to the candidate configuration data by the archived configuration data to ensure the candidate configuration is synchronous with the operational configuration of the network device.” in conjunction with all other limitations of the dependent and independent claims are not taught nor suggested by the prior art of record (PTO-892 and 1449). Therefore, all pending claims 1, 7, 12-17, 23, 28-32, 40 and 43 are hereby allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance”.

CONCLUSION

7. Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

15. For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199. The USPTO official fax number is 571-272-8300

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sherief Badawi whose telephone number is (571) 272-9782. The examiner can normally be reached on Monday through Friday 7:30-5:00, Alt Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cottingham can be reached on (571) 272-7079. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2167

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/John R. Cottingham/
Supervisory Patent Examiner, Art Unit 2167

/Sherief Badawi/
Examiner, Art Unit 2167
1-27-2009

/lsw/
2 February 2009